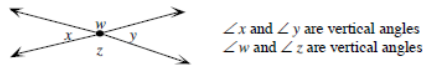


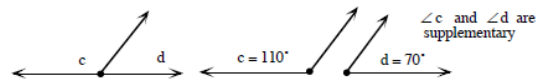
Angle Pair Relationships

Properties of Angle Pairs

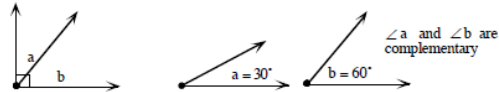
Intersecting lines form four angles. The pairs of angles across from each other are called vertical angles. The measures of vertical angles are equal.



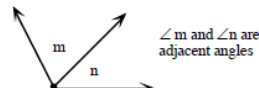
If the sum of the measures of two angles is exactly 180° , then the angles are called supplementary angles.



If the sum of the measures of two angles is exactly 90° , then the angles are called complementary angles.



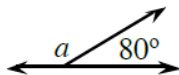
Angles that share a vertex and one side but have no common interior points (that is, do not overlap each other) are called adjacent angles.



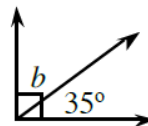
For additional information, see the Math Notes boxes in Lesson 8.3.2 of the *Core Connections, Course 2* text and Lesson 9.1.1 of the *Core Connections, Course 3* text.

Find the measure of each angle labeled with a variable. Show all work and identify each angle pair relationship to justify your answers.

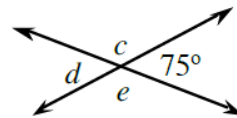
1.



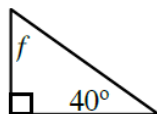
2.



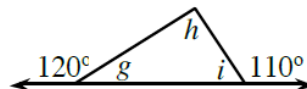
3.



4.



5.



6.

